

## Faceting 121 - Lesson 1B

Beaver

by Arya Akhavan (November 2012)

Angles for R.I. = 1.690

33 + 8 girdles = 41 facets

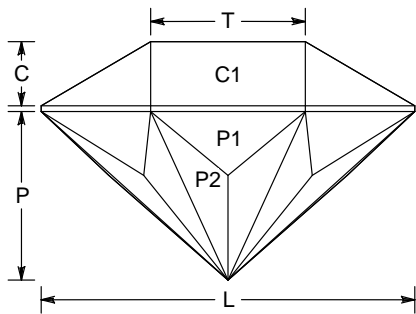
8-fold, mirror-image symmetry

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L/W = 1.000 T/W = 0.414 U/W = 0.414

P/W = 0.451 C/W = 0.172

Vol./W<sup>3</sup> = 0.220



### PAVILION

P1	43.35°	96-12-24-36-48-60-72-84	Cut to centerpoint.
G1	90.00°	96-12-24-36-48-60-72-84	Set stone size.
P2	41.35°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	Meet P1, G1

### CROWN

C1	30.36°	96-24-48-72	Set girdle width.
C2	39.64°	12-36-60-84	Level girdle.
C3	0.00°	Table	Meet C1, C2

We've taken the first pattern from this lesson, and added an extra set of pavilion facets. Let's see how this changes the extinction pattern, the light return, and the scintillation. Try rendering this in amethyst and comparing it to an amethyst rendering of the first design from the lesson.

Lesson rules: cut in tanzanite, trying to match colors with lesson 1A and 1C

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